

# Advanced Manufacturing Office Technical Partnership Funding Opportunity Stakeholder Toolkit

The U.S. Department of Energy (DOE) is proud to announce up to \$7.5 million in federal funding to enhance manufacturing competitiveness. Large energy users, including manufacturers, can improve energy efficiency, manage emissions, and bolster competitiveness by deploying **renewably supplied district energy systems** and integrating **smart manufacturing technologies** into energy management practices. Efficiency improvements in manufacturing not only benefit the industrial sector but also improve the energy efficiency and reduce carbon intensity of products used throughout the economy.

DOE's Advanced Manufacturing Office (AMO) seeks proposals for one of two topics. [Learn more below and apply here](#). Full applications are due March 18, 2022.

## Key Points for Our Stakeholders:

- Selected recipients will develop advanced renewably supplied district energy systems or support the development and implementation of a pilot program to accelerate the integration of smart manufacturing and energy management systems.
- Funding for these opportunities will be provided by DOE's Office of Energy Efficiency and Renewable Energy's Advanced Manufacturing Office (AMO), which supports the development of technologies that improve energy efficiency in U.S. manufacturing as well as foundational, cross-cutting manufacturing processes, information, and materials technologies critical to an efficient and competitive domestic manufacturing sector.
- Please use sample email and social media language below (page 3) to **help us amplify** this opportunity to manufacturers, research institutions, regional efficiency organizations, energy efficiency program implementors, and any others in your network interested in catalyzing innovations and developing cutting-edge energy systems and information technologies.
- Specifically, we hope to reach and encourage submissions from stakeholders capable of demonstrating the capabilities of advanced district energy systems and establishing a model of regional support for increasing the adoption of smart manufacturing technologies in energy management systems.

## Funding Description:

### Topic 1: Demonstration of Advanced Renewably Supplied District Energy Systems

*DOE anticipates making two to three awards for topic 1 (up to \$7,000,000)*

District energy systems provide multiple buildings with heating and/or cooling from a central plant. These systems increase efficiency and reduce emissions compared to individual building systems. They also provide a reliable and resilient source of thermal energy that is particularly useful for large energy users such as manufacturing facilities, healthcare campuses, and military bases. However, district energy systems are traditionally fossil fuel-based.

AMO seeks projects to design, construct, and demonstrate advanced district energy systems that:

- Offer fuel-flexibility and incorporate flexible combined heat and power, energy storage, or renewable sources such as biomass, geothermal, solar PV, solar thermal, and wind; or,

- Convert existing fossil-fueled heating equipment or CHP systems in district energy systems to renewable fuels

Proposals should describe the innovation drivers and challenges, identify the potential for replication and the underlying value proposition, quantify the anticipated pollutant and carbon dioxide emissions reduction potential at the site, and highlight opportunities for diversity, equity and inclusion as well as environmental justice and the potential to positively impact historically underserved communities.

## **Topic 2: Pilot Program to Accelerate the Integration of Smart Manufacturing Technologies**

*DOE anticipates making one award for topic 2 (up to \$500,000)*

Structured energy management systems, such as those aligned with the global International Organization on Standardization (ISO) 50001 standard, are proven to yield deep and sustained energy savings for manufacturers. Smart technologies, including advanced sensors, controls, software platforms, and data analytics, allow manufacturers to further optimize their use of energy and materials. Incorporating smart technologies into energy management systems can yield deeper savings and boost competitiveness.

AMO seeks proposals to establish a regional, two-year pilot initiative that will focus on new technical assistance services to help manufacturers integrate the latest smart manufacturing technologies into existing energy management systems and adopt state-of-the-art systematic energy management practices.

The new regional initiative will scale its impacts by increasing and enhancing the capabilities of existing programs across the industrial sector. Activities will include:

- Education, workforce training, and workshops on smart manufacturing technologies and energy management systems
- Training for instructors and staff of existing state, local, and utility-sector industrial efficiency and strategic energy management programs to expand the scope of their services
- Expert speakers for existing programs' energy efficiency events

The regional initiative will tailor its structure and services to the regional industrial base and existing state and local programs to create flexibility, provide opportunities for sharing best practices, and maximize effectiveness.

### **Key FOA Dates:**

FOA Issue Date:	<b>January 25, 2022</b>
Full Application Deadline:	<b>March 18, 2022</b>
Expected Date for Selection Notifications:	<b>June 2022</b>
Expected Timeframe for Award Negotiations:	<b>June – September 2022</b>

### **Contact Information:**

Please reach out to [AMOTPFOA@ee.doe.gov](mailto:AMOTPFOA@ee.doe.gov) with specific questions or comments related to this funding opportunity. Please reach out to [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov) for questions related to the registration process and use of the EERE Exchange website.

**Sample Email to Send to Your Network (feel free to attach this stakeholder toolkit to your email):**

Dear Friends,

I invite you to review the U.S. Department of Energy's (DOE) latest funding opportunity. DOE's Advanced Manufacturing Office invests in manufacturing innovation to accelerate and strengthen the clean economy. Their [newest funding opportunity](#) announced up to \$7.5 million to drive adoption of clean energy technologies that are critical for climate protection. The Technical Partnerships FOA seeks applicants in one of two areas.

First, DOE seeks projects to design, construct, and demonstrate **advanced district energy systems** that offer fuel-flexibility and incorporate flexible combined heat and power (CHP), energy storage, or renewable sources such as biomass, geothermal, solar PV, solar thermal, and wind; or convert existing fossil-fueled heating equipment or CHP systems in district energy systems to renewable fuels.

The second FOA topic seeks proposals to establish a regional, **two-year pilot initiative** that will focus on new technical assistance services to help manufacturers integrate the latest smart manufacturing technologies into existing energy management systems and adopt state-of-the-art systematic energy management practices.

Learn more about both FOA topics and [apply here by March 18](#).

**Sample Social Media Post to Share With Your Network:**

The Department of Energy's Advanced Manufacturing Office just announced a new funding opportunity to deploy renewably supplied district energy systems and integrate smart manufacturing technologies into energy management practices. Learn more here:

<https://www.energy.gov/eere/amo/articles/funding-notice-75-million-renewably-supplied-district-energy-systems-and-regional>

**Existing U.S. Department of Energy Social Media to Amplify/Retweet:**

- [Linkedin Post](#) – 1/27/22
- [Twitter Tweet](#) – 1/27/22

Sample Social Media Images ([Files available here](#)):

